

MasterSheet

053 0058
Revision 02/27/18



Complete Car Audio
Installation Instructions
CRUTCHFIELD®

IMPORTANT

Before starting, compare items on your invoice with items received.
Carefully check through packaging material. If any item is missing,
please call **Crutchfield Technical Support** at **1-800-955-9094**.

Inside...

Although reasonable attempts are made to verify the accuracy of the information contained in this MasterSheet, it is presented without warranties or guarantees of any type due to the constantly changing nature of this type of information and running changes in vehicle production. Any person or entity using this information does so at his or its own risk. If you find our instructions are different from your vehicle, or if you have questions, do not continue with your installation. Contact our toll-free technical support for assistance.

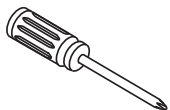
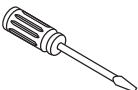
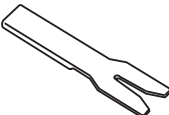
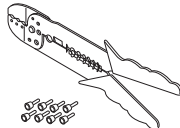


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9	Cargo Door Subwoofer						✓	
10	Wire Splicing Guide							✓

Tools Required ►

Phillips Screwdriver	Small Flat Blade Screwdriver	1/4"	10mm	Panel Tool	Drill & 13/64" Bit	Wire Strippers & Crimp Caps
		Socket, Ratchet & Extension				
						

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IMPORTANT: Disconnect negative battery cable before all operations
in order to avoid an electrical short or accidental airbag deployment.

Note: At this time, no aftermarket antenna is available from Crutchfield.
A replacement antenna may be purchased from a local dealership.

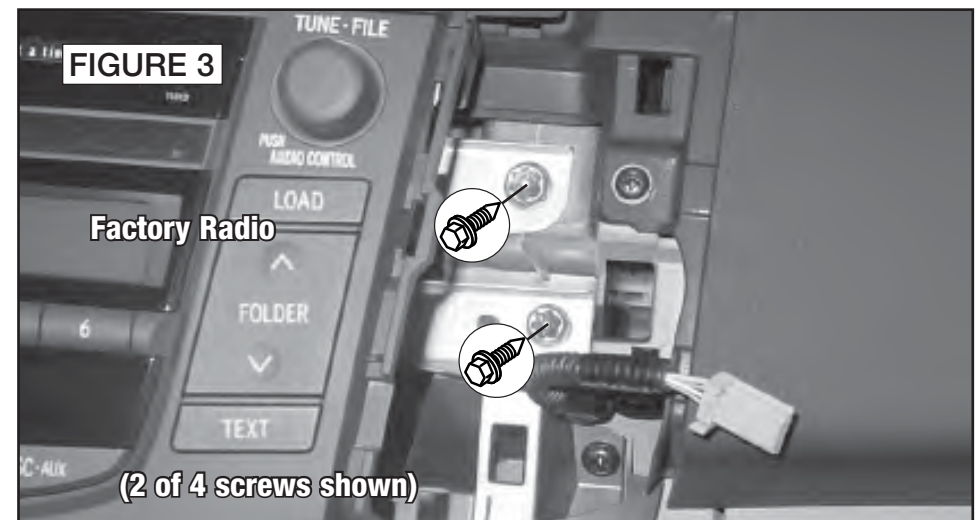
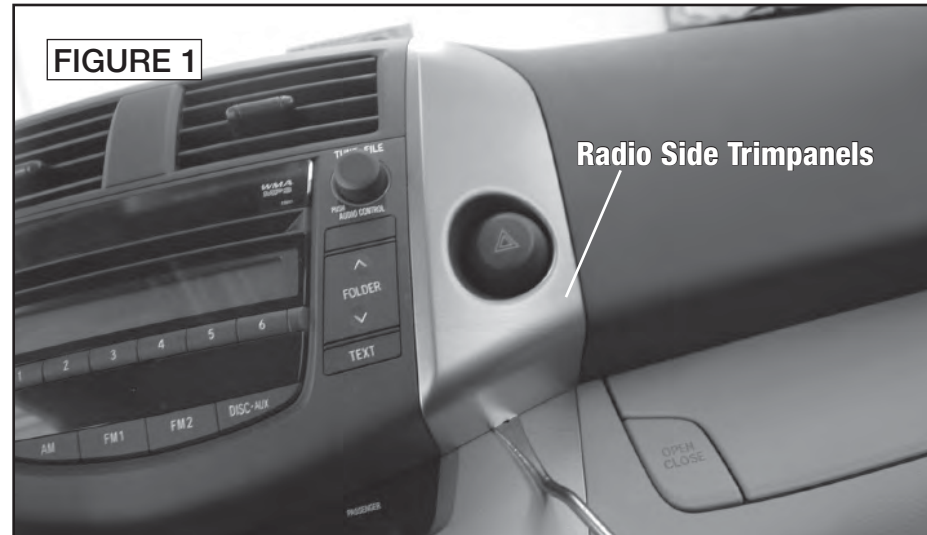
2006-'12
Toyota Rav4



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Factory Radio Removal

1. Before proceeding, eject disc(s) from factory unit if present.
2. Set parking brake and disconnect negative battery cable to prevent any electrical short.
3. Starting at the bottom edge, pry out both **radio side trimpanels** to release clips. Disconnect wiring harnesses and remove panels (Figures 1 & 2).
4. Remove four (4) 10mm screws securing **factory radio** (Figure 3).
5. Pull out radio to release clips, disconnect and remove.



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OEM Integration

This page addresses integrating aftermarket accessories such as CD Changers, Auxiliary Input Adaptors, iPod® Adaptors, etc., with a factory radio system.

1. Remove factory radio following instructions on the previous page.
2. Follow instructions supplied with the accessory device.
3. Connect optional adaptor to input as shown.
4. Test operation of adaptor and reassemble dash by reversing disassembly steps.



Rear View Factory Radio



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Receiver Installation

A Standard DIN unit is shown. A Double-DIN receiver may also be installed following these same steps.

1. Secure receiver to mounting bracket following instructions supplied with the dash kit.
2. Make wiring connections following instructions supplied with the receiver wiring interface received from Crutchfield.
3. Hold receiver assembly near dash. Connect receiver wiring interface to vehicle harness. Plug antenna lead into rear of receiver. Plug in any other accessories to be used with the receiver.
4. Slide assembly into dash and secure with screws previously removed.
5. Test operation and reassemble dash by reversing removal steps.

NOTES:

Please read first

- Check to make sure the Crutchfield receiver wiring adaptor plugs into the vehicle receiver harness. If the Crutchfield adaptor is incorrect, please call our **Technical Support Department at 1-800-955-9094.**



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Front Door Speakers



IMPORTANT

No speaker wiring adaptor is available at this time from Crutchfield for vehicles equipped with standard tweeters. It will be necessary to splice wires in order to install an aftermarket speaker.

If factory-equipped with Standard (non-JBL) speakers, the front tweeters and the door woofers are wired together at each tweeter location. If you remove or replace the tweeters, you'll have to splice the input and output wires together to keep the woofers working.

1. Pry off "sail" panel starting at the top edge (Figure 1).
2. Pry off door pull cover to remove (Figure 2). Remove two (2) phillips screws exposed by removal of pull cover (Figure 3).
3. Pry out door release screw cover and remove one (1) exposed phillips screw (Figure 4).
4. Starting at the front edge, pry out power options switch panel. Disconnect wiring harnesses and remove panel (Figure 5).

Continued on the next page.



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NOTES:

Please read first

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



FIGURE 1



FIGURE 2

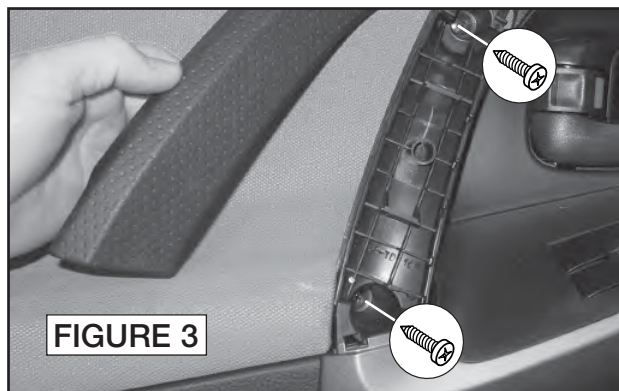


FIGURE 3

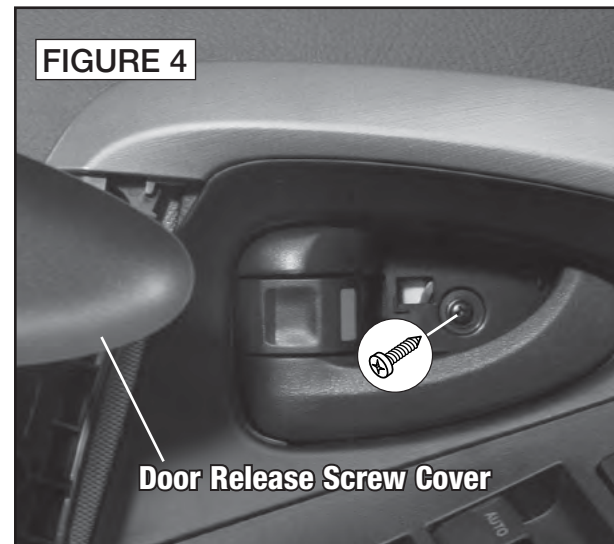


FIGURE 4

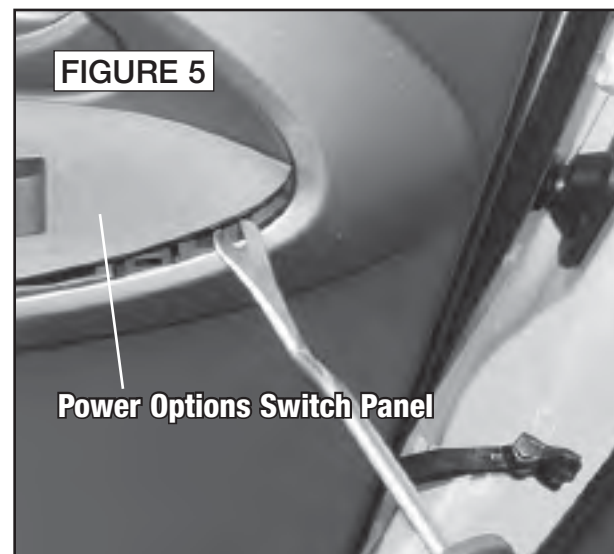


FIGURE 5

Front Door Speakers (continued)

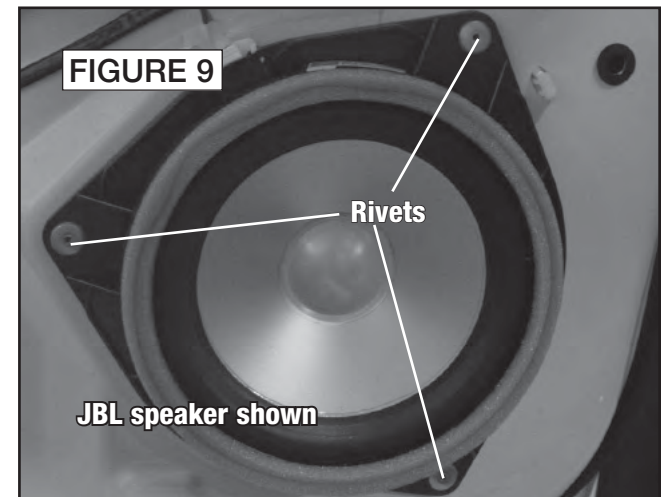
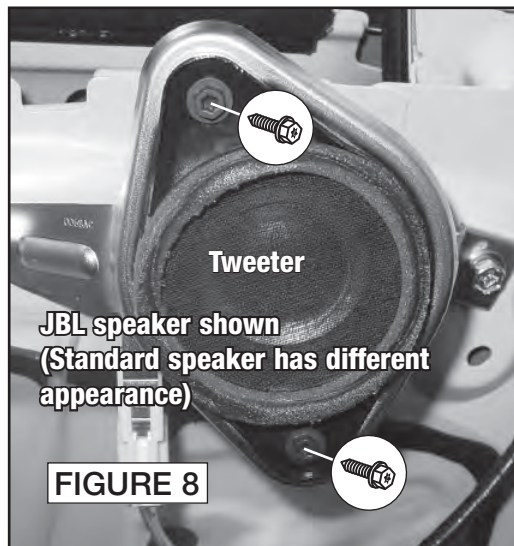
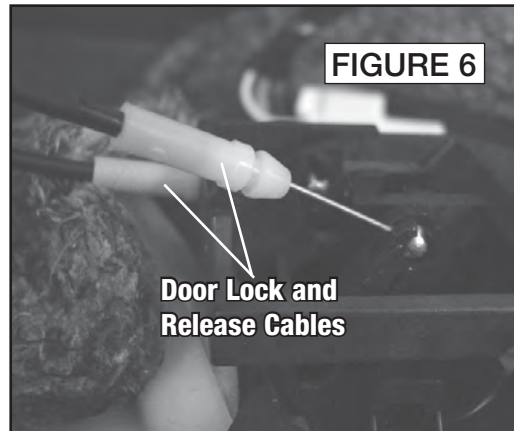
5. Pry out sides and bottom of door panel to release clips. Lift panel, disconnect door lock and release cables and remove (Figures 6 & 7).

6a. Tweeter Removal & Installation:

- Remove two (2) 1/4" screws securing speaker. Pull out speaker, disconnect and remove (Figure 8).
- Fabricate a speaker bracket and secure speaker to bracket.
- If equipped with JBL tweeters, connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- If equipped with Standard tweeters, splice input and output wires together at the tweeter in order to retain woofer operation. Make wiring connections following instructions on page 10. Return to this page to complete installation.
- Secure speaker/bracket assembly to location.

6b. Woofer Removal & Installation:

- Drill out three (3) rivets securing factory speaker/bracket assembly with a 13/64" bit. Pull out assembly, disconnect and remove (Figure 9).
- Secure speaker adaptor bracket to location with hardware supplied.
- Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- Secure speaker to speaker bracket.



7. Test speaker operation and reinstall door panel by reversing removal steps.

CAUTION:

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.

SAFETY CHECK

- Check that wires do not interfere with window operation.
- Test door lock and release operation.

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Rear Door Speakers

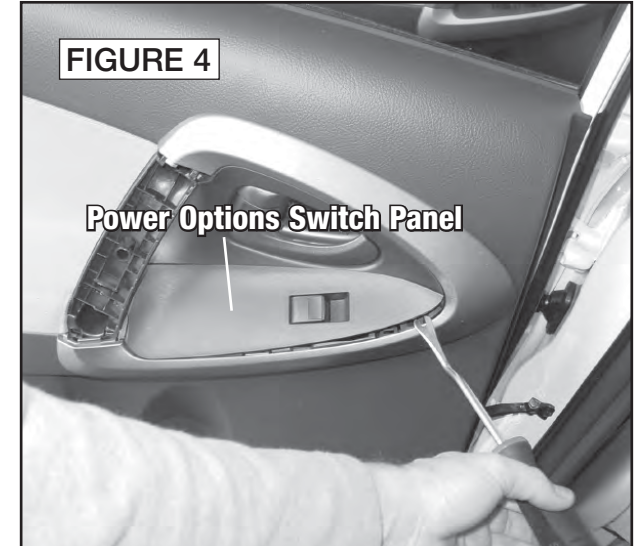
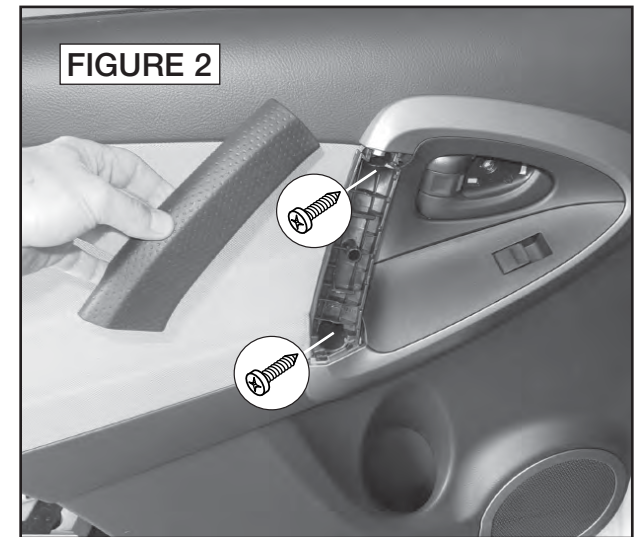
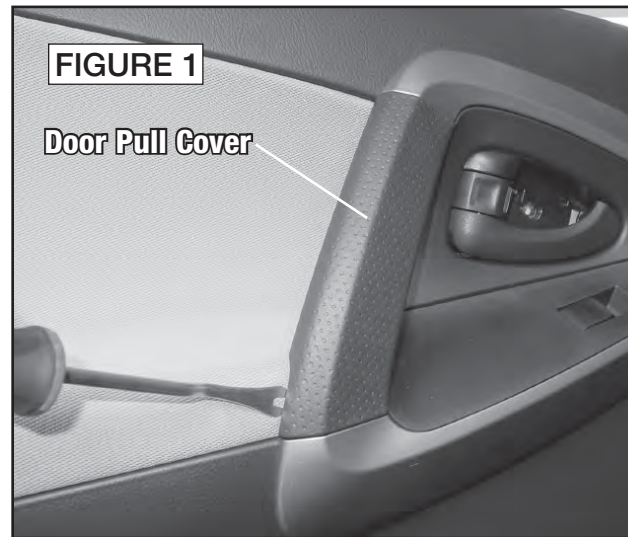
NOTES:

Please read first

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

1. Pry off door pull cover to remove (Figure 1). Remove two (2) phillips screws exposed by removal of pull cover (Figure 2).
2. Pry out door release screw cover and remove one (1) exposed phillips screw (Figure 3).
3. Starting at the front edge, pry out power options switch panel. Disconnect wiring harnesses and remove panel (Figure 4).

Continued on the next page.



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Rear Door Speakers (continued)

4. Pry out sides and bottom of door panel to release clips. Lift panel, disconnect door lock and release cables and remove (Figures 5 & 6).

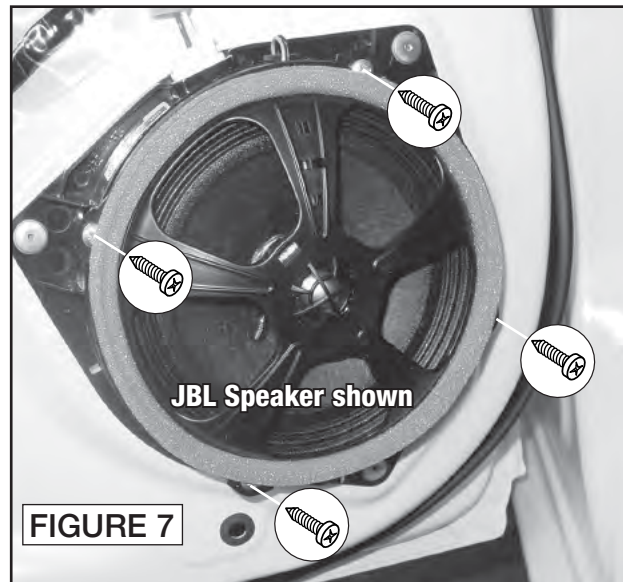
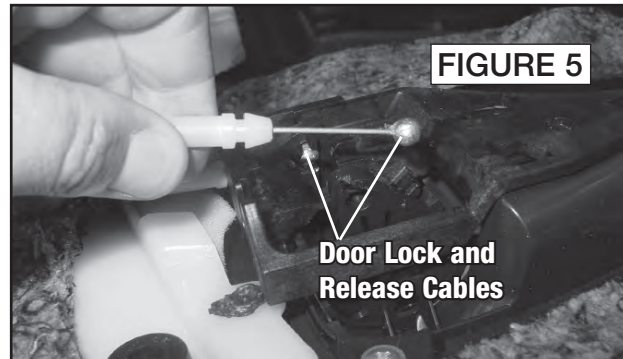
5a. If Equipped with JBL Speakers:

- Remove four (4) phillips screws securing speaker. Pull out speaker, disconnect and remove.
- Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- Secure speaker to factory bracket (Figures 7 & 8).

5b. If Equipped with Standard Speakers:

- Drill out three (3) rivets securing factory speaker/bracket assembly with a 13/64" bit. Pull out speaker, disconnect and remove.
- Secure speaker adaptor bracket to location.
- Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- Secure speaker to adaptor bracket.

6. Test speaker operation and reinstall door panel by reversing removal steps.



SAFETY CHECK

- Check that wires do not interfere with window operation.
- Test door lock and release operation.

CAUTION:

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.

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Cargo Door Subwoofer



IMPORTANT

No speaker wiring adaptor is available at this time from Crutchfield for this speaker location. It will be necessary to splice wires in order to install an aftermarket speaker.

No speaker adaptor bracket is available at this time for this location. A mounting bracket must be fabricated in order to install an aftermarket speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pry off upper window trim of cargo door to remove (Figure 1).
2. Pry off both side window trimpanels (Figure 2).
3. Pry around sides and center of door panel to release thirteen (13) clips. Disconnect light wiring harness and remove (Figure 3).
4. Drill out four (4) rivets securing speaker with a 13/64" bit (Figure 4).
5. Fabricate a speaker mounting bracket and secure speaker to bracket.
6. Make wiring connections following instructions on page 10. Return to this page to complete installation.
7. Secure speaker/bracket assembly to location.
8. Test speaker operation and reinstall door panel by reversing removal steps.

FIGURE 1

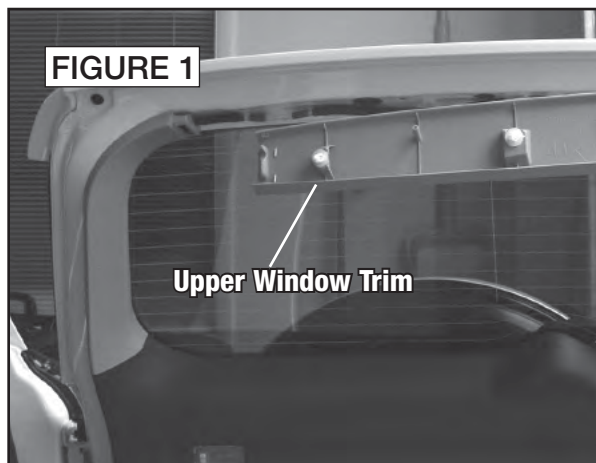


FIGURE 2

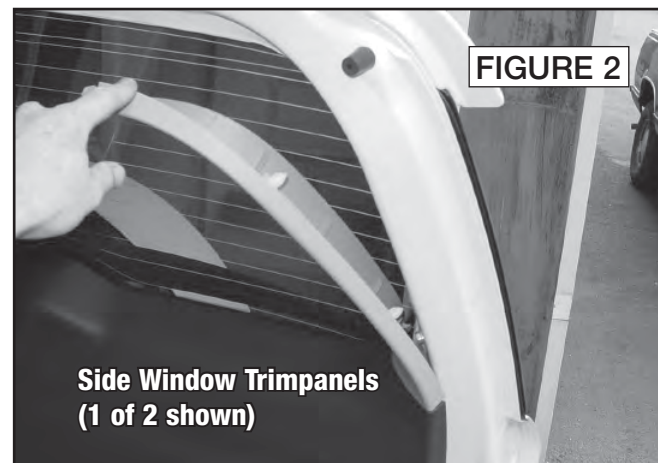


FIGURE 3

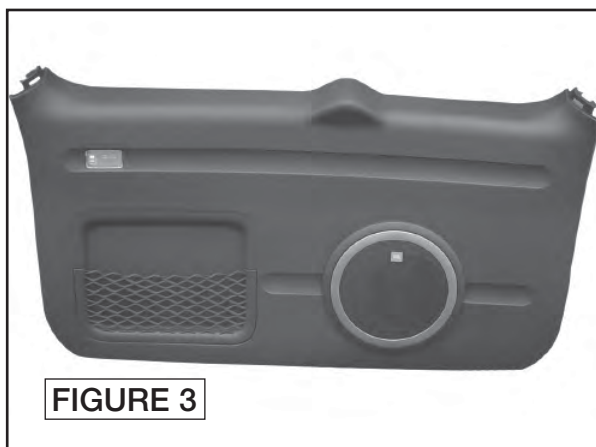
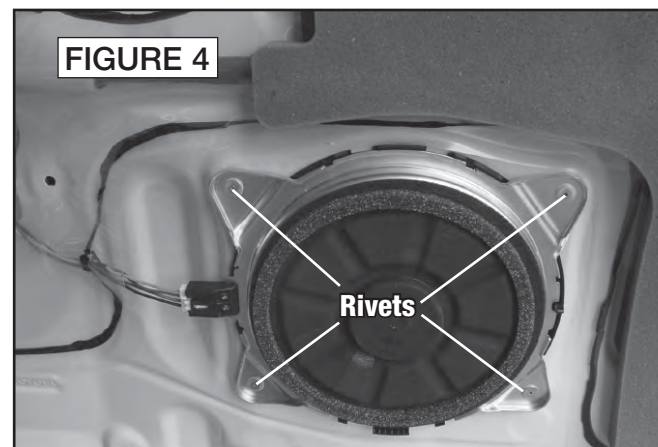


FIGURE 4



CAUTION:

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



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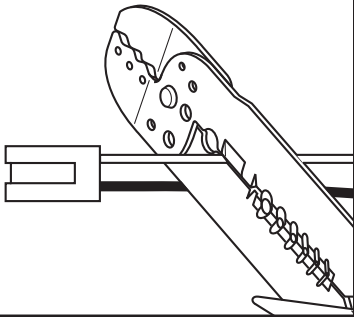
Wire Splicing Guide

These methods can be used to make wiring connections if no receiver or speaker wiring adaptor is available. Wire color information (if available) can be found on the next page.

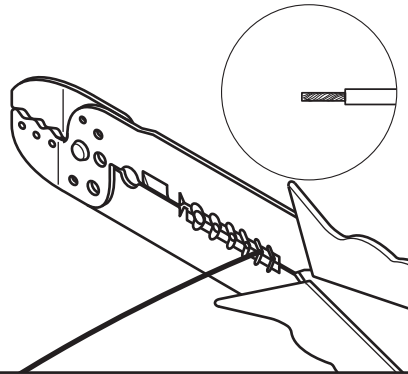
CRIMP METHOD

Factory harness is removed. Save harness if it is to be reconnected in the future by this method.

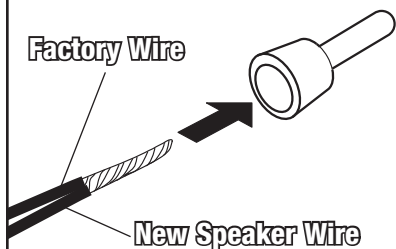
1. Cut factory wires behind factory speaker harness.



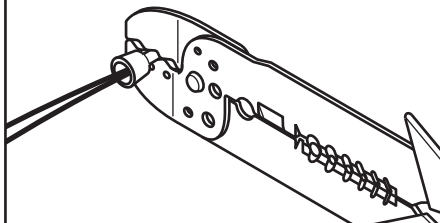
2. Strip end of each wire back 1/2".



3. Twist each positive pair of wires together and insert in crimp cap. Repeat step for negative wires.



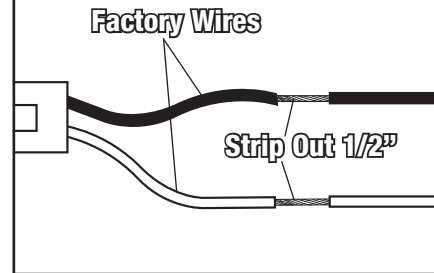
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



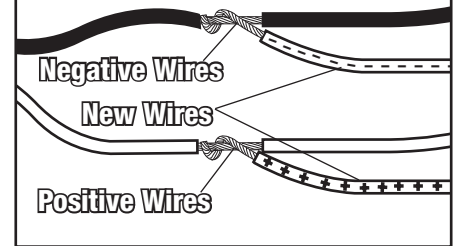
SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

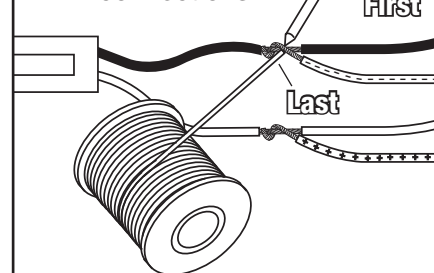
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



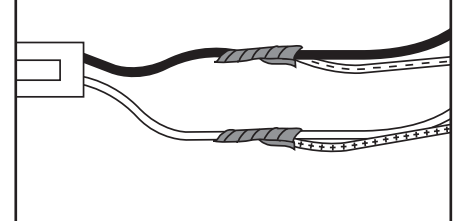
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



3. Heat wires first with soldering iron, then touch solder to wires for solid connections.



4. Wrap wiring connections with electrical tape.
5. Connect new wires to speaker with spade connectors.



Wire Splicing Guide (continued)

NOTE: In most cases a speaker wiring adaptor is available from Crutchfield and splicing will not be necessary. If no adaptor is available, use this chart as a guide to match and splice wires.

Wire Location	Wire Color
Left front speaker/tweeter (All systems)	positive (+): pink, negative (-): violet
Right front speaker/tweeter (All systems)	positive (+): light green, negative (-): blue
Left rear speaker (All systems)	positive (+): black, negative (-): yellow
Right rear speaker (All systems)	positive (+): red, negative (-): white
Subwoofer voice coil #1 (JBL system)	positive (+): black, negative (-): green
Subwoofer voice coil #2 (JBL system)	positive (+): pink, negative (-): violet
Vehicle speed sense	(w/o JBL) Pin #3 of 20-pin white plug at radio - violet (w/JBL) Pin #27 of 30-pin plug low in passenger kick panel - violet
Reverse (+)	Dash fuse box, white 30 pin plug (IA), pin 30 - red
Parking brake	Dash fuse box, white 14 pin plug (ID), pin 4 - black
Foot brake	At brake pedal switch or dash fuse box, white 30 pin plug (IA), pin 9 - blue
NOTES: If equipped with a factory amplifier, the amplifier will be located behind the passenger's side rear quarter trim panel.	

